

Message

From: Nguyen, Thuy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=FD4C9A977D4493E948C607108A47C0E-THUY NGUYEN]
Sent: 2/9/2021 6:43:50 PM
To: Karen Larson [klarson@clarke.com]
CC: Tham, Kan [Tham.Kan@epa.gov]
Subject: RE: FedEx delivery today

Hi Karen

How are you doing?

You could be correct that the method from our lab and the one from Eurofins lab may have different detection and reporting limits. Our detection limit is 4ppt.

We also have extensively modified the sample preparation procedure (which was based on EPA 537.1) to remove interference of the oily matrix of Anvil on the recoveries of the PFAS compounds. We are able to recover 50-70% of our spiked compounds using the modified method.

We are still doing review on our data and will share with you as soon as we have the final results and the method.

Do you know what the detection limits are for Eurofins analysis? And what method did they use?

Thuy

From: Karen Larson <klarson@clarke.com>
Sent: Friday, February 5, 2021 12:20 PM
To: Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Cc: Tham, Kan <Tham.Kan@epa.gov>
Subject: RE: FedEx delivery today

Hi Thuy,

I hope you are staying well and warm.

We received our test results back from Eurofins for these same two samples (the pre-package sample and the sample from the drum), and both were non-detect. I suspect we may have laboratory & method differences in the method detection limits and reporting limits in the method. Would you be able to share the laboratory report for the drum sample, as well as information about modifications to the method and extraction? My own testing is not very meaningful if there is such variation in the reporting limits.

As well, how might a different carrier (non-oil, for example) in another product affect the applicability and sensitivity of the method? There is a lot of chatter from the states and user communities about testing other formulations (Clarke's and others), and I wonder how comparable the various tests will be.

Thank you,
Karen

From: Karen Larson
Sent: Monday, January 4, 2021 2:25 PM
To: Nguyen, Thuy <Nguyen.Thuy@epa.gov>; Tham, Kan <Tham.Kan@epa.gov>
Subject: RE: FedEx delivery today

Hi Thuy,

The jugs (4 total) came from two lots.

- Two (2) 2.5 gallon jugs of "Lot # 2006120002" - this lot was produced and packaged June 2020

- Two (2) 2.5 gallon jugs of "Lot # 1907080004" -- this lot was produced and packaged in July 2019

I wonder if volume and surface area would affect the magnitude of leaching? It's math I've long forgotten, but I would suspect a higher % of the total volume is in contact with the surface area of the jug, as compared to the drum.

Karen

From: Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Sent: Monday, January 4, 2021 1:24 PM
To: Karen Larson <klarson@clarke.com>; Tham, Kan <Tham.Kan@epa.gov>
Subject: RE: FedEx delivery today

Hi Karen

We looked at the data a little closer. The levels of PFAS in the drum sample are much lower than those in the sample of the 2.5 gallon jug you sent us previously. The PFAS in the rinsates of the drums are in the same order of magnitude as those of the rinsates of the 2.5 gallon treated jug.

You said the drum sample was stored in the drum since April 2020. How about the sample from the 2.5 gallon jug?

Thanks

Thuy

From: Karen Larson <klarson@clarke.com>
Sent: Wednesday, December 30, 2020 1:18 PM
To: Tham, Kan <Tham.Kan@epa.gov>; Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: Re: FedEx delivery today

Ok, will do. That is good news.. The team comes back to the office on Monday and I'll arrange for the transfer then.

Best regards and happy new year.

Karen

Sent from my Verizon, Samsung Galaxy smartphone

From: Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Sent: Wednesday, December 30, 2020 10:14:28 AM
To: Karen Larson <klarson@clarke.com>; Tham, Kan <Tham.Kan@epa.gov>
Subject: RE: FedEx delivery today

These are preliminary data only --- The prepackage sample is clean compared to the one collected from the drum
Karen -- Can you put the "pre-package" sample in a treated (fluorinated) 2.5 gallon jug and send it to me? I want to do a storage study to determine the leaching rate of PFAS from the container onto the product.

Thanks

Thuy

From: Karen Larson <klarson@clarke.com>
Sent: Monday, December 28, 2020 8:32 AM
To: Tham, Kan <Tham.Kan@epa.gov>; Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: FedEx delivery today

Good morning, I hope your holiday was joyful and restful.

FedEx has alerted that the package I sent last week will arrive Ft Meade today before 10:30 am. These are the pre-package samples and drum samples we took last Monday.

Karen

Sent from my Verizon, Samsung Galaxy smartphone